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THE UNIVERD STATES OF AMERICA

Farmers Forage Research Cooperative

Willierens, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF SEVENTEEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT \$4 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'FFR 666'

In Erstimony Waterrot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 25th day of April in the year of our Lord one thousand nine hundred and seventy-four

Earl L. But

Secretary of Agriculture

Allosk

Commissioner Plant Variety Protection Office

orain Lioision Agricultural Marketing Servico

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UNITED STATES DEPARTMENT OF AGRICULTURE CONSUMER AND MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

FORM APPROVED OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

	TRUCTIONS: See Reverse. ARIETY NAME OR TEMPORARY 2. KIND NAME			FOR OFFICIAL USE ONLY					
DESIGNATION			PVPO NUMBER						
FFR666	Soybean		130	<u> </u>					
GENUS AND SPECIES NAME	4. FAMILY NAME (B	otanical)	FILING DATE	3 30 P.M					
	Leguminos	eae	10/26/10						
Glycine Max		MINATION	FEE RECEIVED	CHARGES					
Grycine max	November	11, 1970 _	\$ 50						
NAME OF APPLICANT(S)	7. ADDRESS (Street	and No. of R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA					
mers Forage Research Co	op. Code)			1					
	4 <u>1</u> 112 East	: State Road	225	317+					
•	West Lafa	ayette, India	ana 47906	567-2700					
•									
<u>-</u>			- CODATION	11. DATE OF INCOR					
9. IF THE NAMED APPLICANT IS NOT A F ORGANIZATION: (Corporation, partnersh	PERSON, FORM OF	10. STATE OF INCO	RPORATION	PORATION					
	p, association, e-vi,	Wiscons	in	1961					
Cooperative				-					
12. Name and mailing address of app	licant representative	(s), if any, to serve	in this application a	no receive air Paper					
	•		. Buker, Exec						
G. Robert Taylor, Soybe	ean Breeder	Robert	t & General M	ianacer					
Farmers Forage Research	cooperative	rresiden	t & General r Forage Reseat	ch Cooperati					
1112 East State Road 2		rarmers.	t chato bosy	225					
West Lafayette, Indiana	a 47906		4112 East State Road 225 West Lafayette, Indiana 47906						
<u> </u>		west_Lar	ayette, India	111d - 17500					
13. CHECK BOX BELOW FOR EACH ATTA	Climent Soumi 1123								
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X 120. Exhibit C, Objective De	scription of the Varie	ety							
X 12D. Exhibit D, Data Indicat	ive of Novelty	,							
X 12E. Exhibit E, Statement of	the Basis of Applica								
[X] 12E. Exhibit E, Statement of	the Basis of Applica	ed of this variety w	ill be deposited upor	request before iss					
[X] 12E. Exhibit E, Statement of	the Basis of Applica	ed of this variety w	ill be deposited upor th such regulations a	n request before issues may be applicable					
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The applicant declares that a viable ance of a certificate and will be re (See Section 52, P.L. 91-577).	the Basis of Applica e sample of basic se- plenished periodical	ed of this variety w ly in accordance wit ety be sold by varie	ty name only as a cl	ass of certified see					
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12.

FORM APPROVED OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

	2. KIND NAME		FOR OFFICIAL USE ONLY							
DESIGNATION			PVPO NUMBER							
FFR666	Soybean		7.301	`)						
GENUS AND SPECIES NAME	4. FAMILY NAME (Bo	tanical)	FILING DATE	TIME						
Carres and a wares mine	Leguminos	·	10/26/72	3:30 P.M.						
a a	5. DATE OF DETERM		FEE RECEIVED	CHARGES						
Glycine Max			\$ 50							
	November	11, 19/0 nd No. or R.F.D. No.,	*	8. TELEPHONE AREA						
NAME OF APPLICANT(S)		na No. or R.F.D. No.,	ny, State, and Dir	CODE AND NUMBER						
ers Forage Research Co	op.	Otata Daniel	225	317+						
•		State Road		567-2700						
	west Laia	yette, India	11d 4/900	307-2700						
<i>:</i>										
	FORM FORM OF	10. STATE OF INCOR	PORATION	11. DATE OF INCOR-						
ORGANIZATION: (Corporation, partnership		STATE OF INCOM	COMPTION	PORATION						
		Wisconsi	n	1961						
Cooperative										
2. Name and mailing address of appli	icant representative(s	;), if any, to serve	n this application as	nd receive an papers						
D-1	am Decades	Daha	Distance Wesser	utivo Wico						
. Robert Taylor, Soybe			Buker, Exec							
armers Forage Research			& General M	_						
112 East State Road 22				ch Cooperativ						
Vest Lafayette, Indiana	47906			State Road 225						
		West Lafa	yette, India	<u>na 47906 </u>						
3. CHECK BOX BELOW FOR EACH ATTAC	HMENT SUBMITTED:									
<u> </u>	scription of the Varie	ty								
X 12c. Exhibit C, Objective Des										
	cription of the Variet									
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12A Exhibit A:

FFR666 was selected as a single, late-maturing plant of the variety, Dyer. The plant was observed to be strikingly different than the remainder of the plants in an herbicide trial at Jackson, Tennessee. Seed from this plant was increased in the greenhouse in the 1968-69 season and checked for distinctiveness in a field test at Jackson in 1969. This line was entered as 94103 in yield tests at three locations in 1970 and 1971. It was entered in university tests at two locations in 1971 and eight locations in 1972. No identifiable variants have been found during multiplication of this variety. No changes in morphology, seed quality, etc. from the original plant have been observed.

Revised Exhibit B:

The general appearance of FFR666 resembles that of the variety Dyer. Seed characteristics resemble those of the variety Dyer in that both varieties have purple flowers, tawny pubescence, tan pods, and yellow seed coats with black hila on slightly enlongated seeds.

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782
OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN (GLYCINE MAX)

EXHIBIT C
(Soybean)

INSTRUCTIONS: See Reverse.	TCINE MAX)								
NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY								
FARMERS FORAGE RESEARCH COOPERATIVE	PVPO NUMBER								
ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code)									
G. Robert Taylor, Soybean Breeder	VARIETY NAME OR TEMPORARY DESIGNATION								
4112 east State Road 225									
West Lafayette, Indiana 47906	FFR666								
Place the appropriate number that describes the varietal cha	racter of this variety in the boxes below.								
1. SEED SHAPE:									
2 1 = SPHERICAL 2 = SPHERICAL 3 = ELONGA	TE 4 = OTHER (Specify)								
2, SEED COAT COLOR:	'SHADE:								
1 = YELLOW 2 = GREEN 3 = BROWN 5 = OTHER (Specify)	4 = BLACK 2 1 = LIGHT 2 = MEDIUM 3 = DARK								
3. SEED COAT LUSTER:	4. SEED SIZE								
1 = DULL. 2 = SHINY	14.7 GRAMS PER 100 SEEDS								
5. HILUM COLOR:	SHADE								
6 1=BUFF 2=YELLOW 3=BROWN 4=GRAY	S = IMPERFECT								
- 12220 NO.	BLACK 2 1 = LIGHT 2 = MEDIUM 3 = DARK								
6 = BLACK 7 = OTHER (Specify)									
6. COTYLEDON COLOR:	7. LEAFLET SIZE (See Reverse):								
2 1 = YELLOW 2 = GREEN	2 1 = SMALL 2 = MEDIUM 3 = LARGE								
8. LEAFLET SHAPE:									
	ELLIPTICAL 5 = OTHER (Specify)								
9. LEAF COLOR (See reverse):	10. FLOWER COLOR:								
2 = MEDIUM GREEN 3 = DARK	1								
11. POD COLOR:	12: POD SET:								
1 = TAN 2 = BROWN 3 = BLACK	2 1 = SCATTERED 2 = CONCENTRATED								
13. PLANT PUBESCENCE COLOR:	! SHADE:								
2 1 = GRAY 2 = BROWN 3 = OTHER (Specify)	1 2 1 = LIGHT 2 = MEDIUM 3 = DARK								
14. PLANT TYPES (See Reverse):	15. PLANT HABIT:								
2 1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE	1 = DETERMINATE 2 = INDETERMINATE								
16. HYPOCOTYL COLOR:	3 = OTHER (Specify)								
2 1 = GREEN 2 = PURPLE	17. SEED PROTEIN:								
18. NUMBER OF DAYS TO FLOWERING (Place a zero in first box (e.g. 0 9) when	2 = 0 3 = 1 4 = 11 5 = 111								
days are 9 or less.)									
	7 = v 8 = vi 9 = vii 10 = viii								
20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGH (e.g. 0 2) when size is 9 mm. or less.)	T (Growth Chamber) AT 25° C. (Place a zero in first box								
MM. LENGTH MM. LENGTH	MM. WIDTH								
OF SEEDLING OF COTYLEDON									
21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)									
0 BACTERIAL 1 SOYBEAN 0 DOWNY OCYST 0	PURPLE O POD AND O ROOT KNOT								
O FROGEYE O STEM O PHYTO- O PHTHORA	BROWN 0 TARGET 0 BROWN SPOT								
0 BUD BLIGHT 0 WILDFIRE 0 RHIZOCTONIA	OTHER (Specify)								

Name of similar variety

40/2

55

Hood

CHARACTER	N N	NAME OF VARIETY Hill				CTER	NAME OF VARIETY								
Plant shape	Hill					angle	Hill								
Leaf shape	Hill				Hill Seed size Hi						DYER_				
Leaf color	Hill				Seed s	hape	Hill DUER								
Leaf surface	Hill	Hill				gmentation	Hill								
GIVE DATA FOR	SUBMITTED AND	SIMILAR STA	NDARD VAR	RIETY:											
VARIETY	NO. OF DAYS	LODGING	PLANT	LEA	FSIZE	CON	TENT	AVERAGE NO.							
TO MATURITY	SCORE	HEIGHT	Width	Length	Protein	Oil	OF PODS PER PLANT	IODINENC							

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.

Beeson

- 2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
- 3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR VARIETY Light Green "Ada" "Wilkin" Medium Green Dark Green "Swift"

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

LEAF SIZE: The following varieties may be used as a guide to identify the relative size leaves.

SIZE VARIETY Small "Amsoy" Medium "Bonus" Large "Anoka"

PLANT TYPE: The following varieties may be used as a guide to identify the plant type.

TYPE Slender "Vansoy" "Wirth" Intermediate Bushy "Adelphia"



FARMERS FORAGE RESEARCH COOPERATIVE

4112 East State Road 225 West Lafayette, Indiana 47906 Tel. 317-567-2700

December 13, 1973

Robert J. Snyder, Examiner Plant Variety Protection Office U.S.D.A. - A.R.S. 6525 Belcrest Road Hyattsville, Maryland 20782

Dear Mr. Snyder: REVISED EXHIBIT

Subject: Application No. 73017; Soybean FFR666

FFR666 has a unique combination of characteristics unlike that of other soybean varieties.

Plant & Seed Characteristics:

The general appearance and seed characteristics of the variety resemble those of the variety Dyer; however, FFR666 is 12" shorter than Dyer which makes it more closely resemble the variety Hill in the height characteristic since Hill is 6" shorter than Dyer. I used Hill in this comparison because the instructions indicated that the variety most like the novel variety should be used. In other characteristics (flower color, pubescence color, pod color and hilum color), FFR666 most closely resembles Dyer as originally stated.

Maturity:

FFR666 matures 14 to 16 days later than Dyer (if we use Dyer for this comparison); however to be consistent with the earlier comparison of height, which is closely associated with maturity, the comparison showed FFR666 to be as much as 24 days later than Hill. This comparison is documented in the data given in Table I.

Disease Resistance:

When nematode tests were conducted on this variety, it was shown to be susceptible to cyst nematodes and root knot nematodes. The cyst nematode and root knot nematode tests were run in different states. If we are comparing FFR666 to Dyer, the nematode tests indicate FFR666 is different that Dyer; whereas, if this comparison is made with Hill, then FFR666 resembles Hill in that they are both susceptible to nematodes. Again, the comparison was made with varieties previously used to indicate which variety FFR666 most nearly resembles as per instructions enclosed with the application form GR-470.

continued.															
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#### Yield Data:

Yield data in table 1 indicates FFR666 is decidedly different in yield than Hill at the TFC location in 1970 (FFR666 yielded 44.8 bu/acre - Hill yielded 25.7 bu/acre). The TFC 1971 data indicates FFR666 is decidedly different than Dyer for yield (FFR666 yielded 58.5 bu/acre - Dyer yielded 39.3 bu/acre).

To summarize data previously submitted that indicates novelty of FFR666 when compared to the two varieties it most closely resembles: FFR666 is like Dyer in seed color, hilum color, pubescence color, pod color, and flower color. It is unlike Dyer inheight, maturity, yield and reaction to cyst and root knot nematodes. FFR666 is like Hill in plant shape, leaf shape and branching (though FFR666 has more branching than Hill, it resembles Hill more than other varieties for this trait), and in reaction to cyst nematodes and root knot nematodes. FFR666 is unlike either variety in Maturity, height, and yield. This combination of maturity, height, and yield plus disease reaction surely indicates novelty.

If a variety was produced that was only different than Dyer in being resistant to Phytophthora root rot, would this not be a novel variety? Example: Chippewa 64, Lindarin 74, Harosoy 63, Clark 63, Pickett 71, and Lee 68. If a variety is susceptible to a disease where Dyer is resistant, but like it in some other traits, is this not also a novel variety?

If a variety was produced that was only 10 days earlier than Wayne, but like it for all seed and plant characters, would the new variety be novel? (A Group I instead of Group III; Chippewa is like Wayne except for flower color and 10-14 days earlier) Would Chippewa be refused a certificate if application were made today? If so, then being 10-15 days later than Hill should also indicate that FFR666 is a novel variety even if it is similar to Hill for some other characteristics.

If a variety was like another except for a single trait - example white flower instead of purple - is that novel enough? Then surely the four characteristics I have listed are sufficient to identify novelty; particularly since no other variety has these same characteristics.

FFR666 has been the shortest variety in a large number of Southeastern and Gulf States tests. Certainly, I can provide you with much 1972 and 1973 data that was not submitted with the original application if there is not sufficient data submitted already to verify that this variety is truly different than all other varieties.

Sincerely yours,

G. Robert Taylor

# 12E Exhibit E:

G. Robert Taylor is Soybean Breeder for Farmers Forage Research Coop; Robert J. Buker is Executive Vice President and General Manager of Farmers Forage Research Coop.